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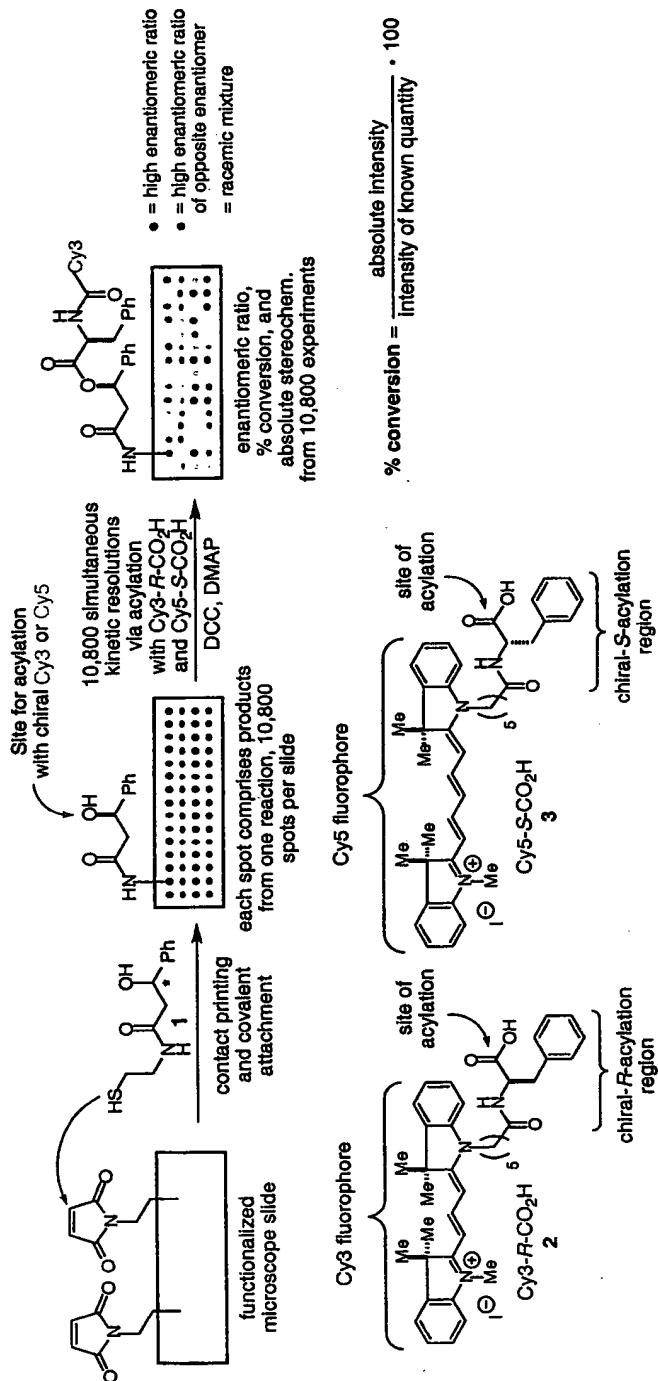


FIGURE 1

Reaction Microarrays

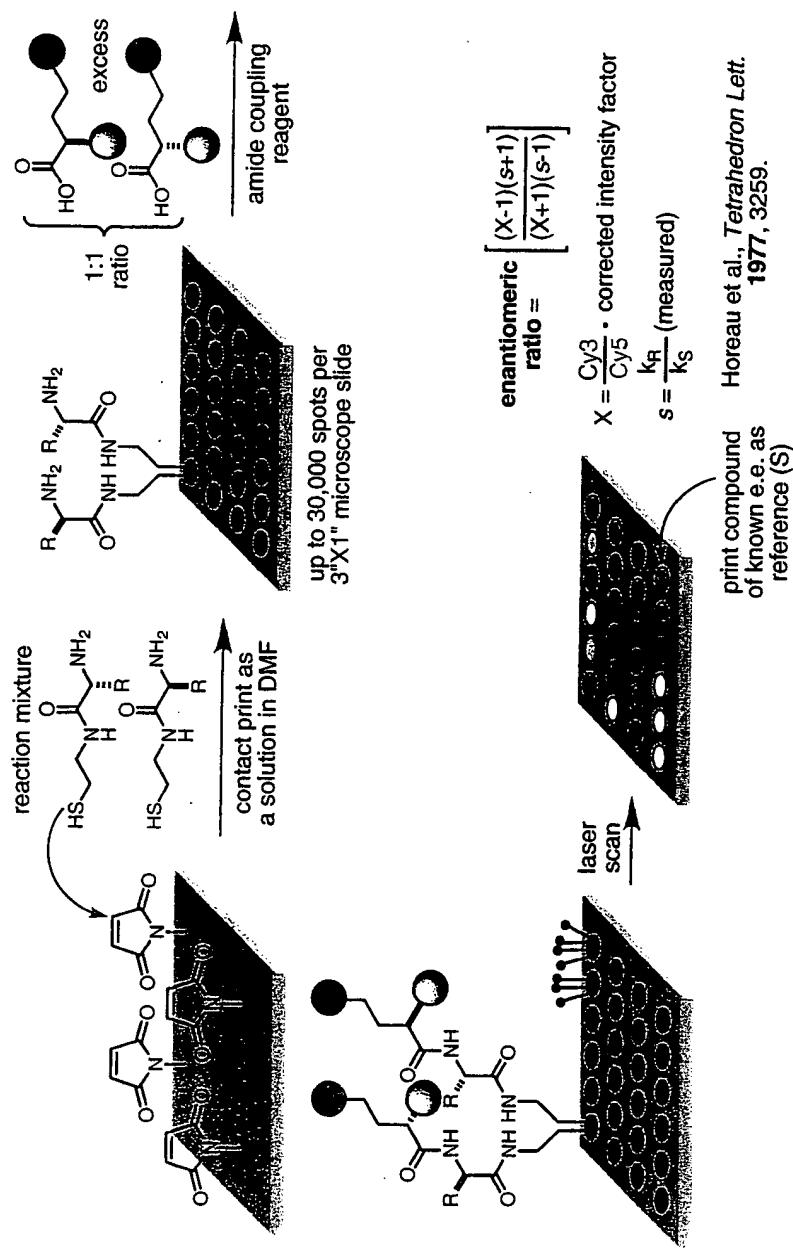
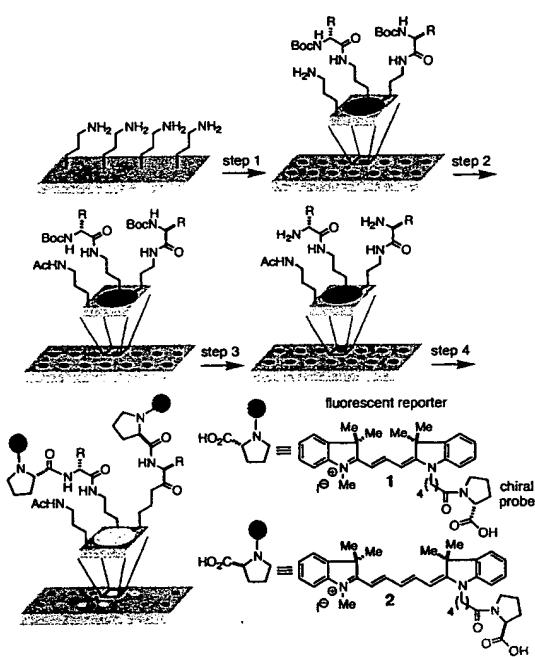


FIGURE 2



Reagents and conditions: step 1) $\text{BocHNCH}(\text{R})\text{CO}_2\text{H}$, PyAOP, iPr_2Net , DMF; step 2) Ac_2O , pyridine; step 3) 10% $\text{CF}_3\text{CO}_2\text{H}$ and 10% Et_3SiH in CH_2Cl_2 , then 3% Et_3N in CH_2Cl_2 ; step 4) Pentafluorophenyl diphenylphosphinate, iPr_2NEt , 1:1 mixture of 1 and 2, DMF, -20°C .

FIGURE 4

**Attachment of amino acids as their allyl amides
to selenyl bromide-functionalized microslides**

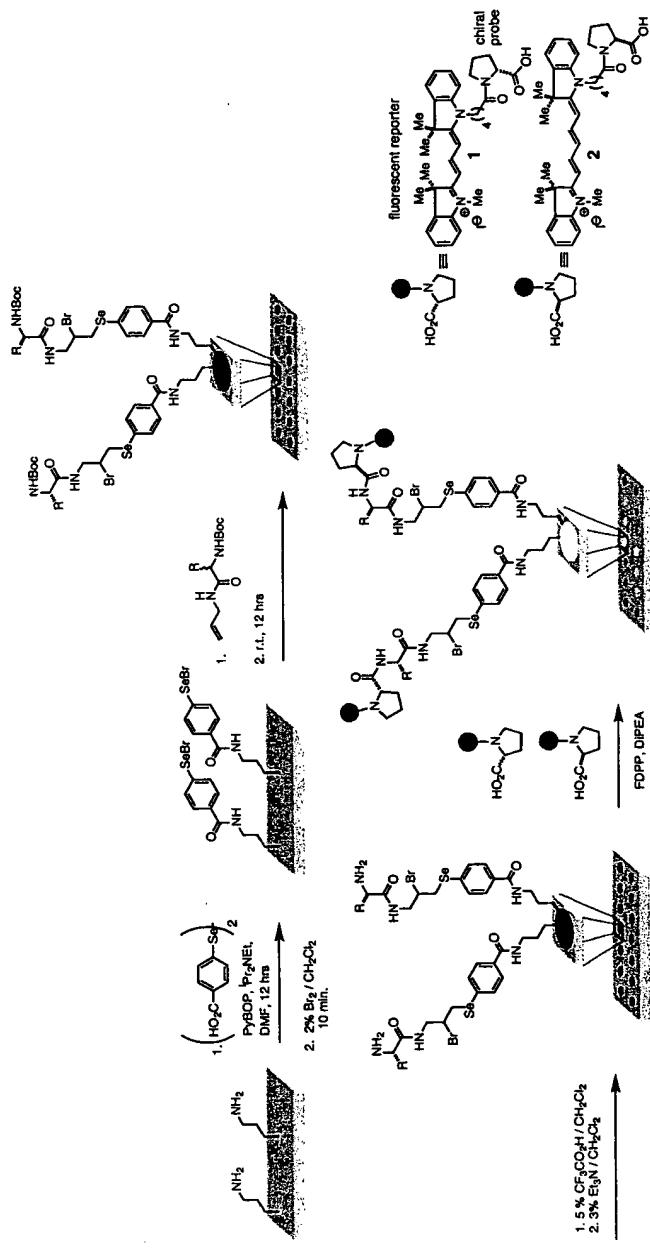


FIGURE 5

Attachment of amino acids as their allyl amides
to nitrone-functionalized microspheres

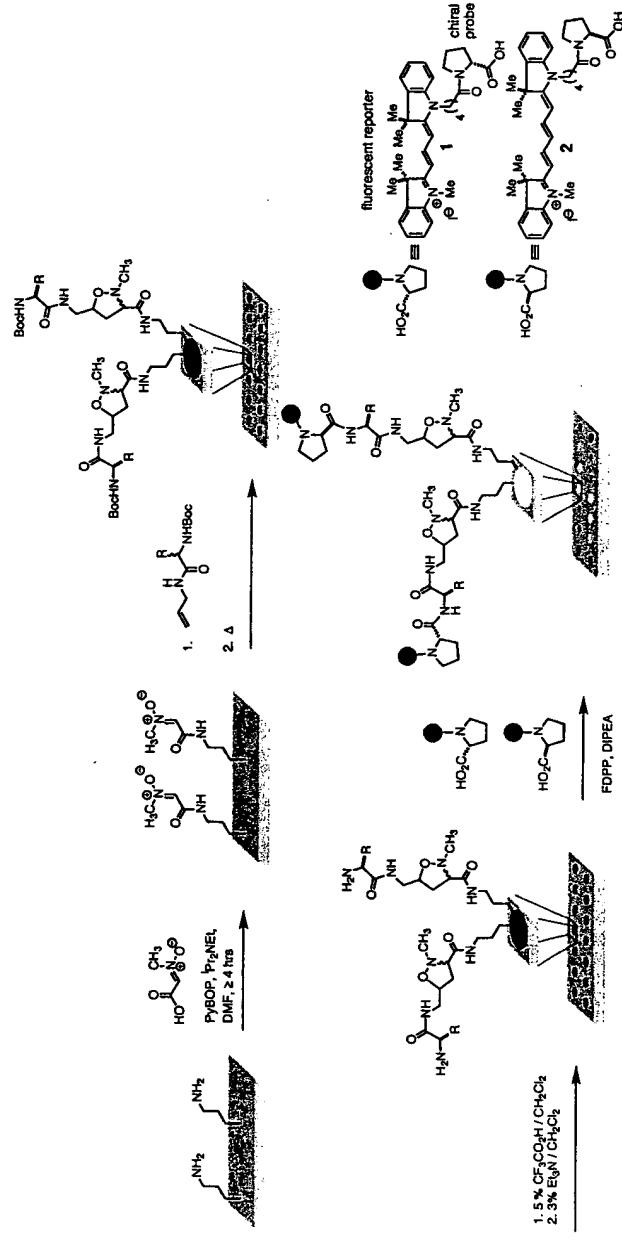


FIGURE 6

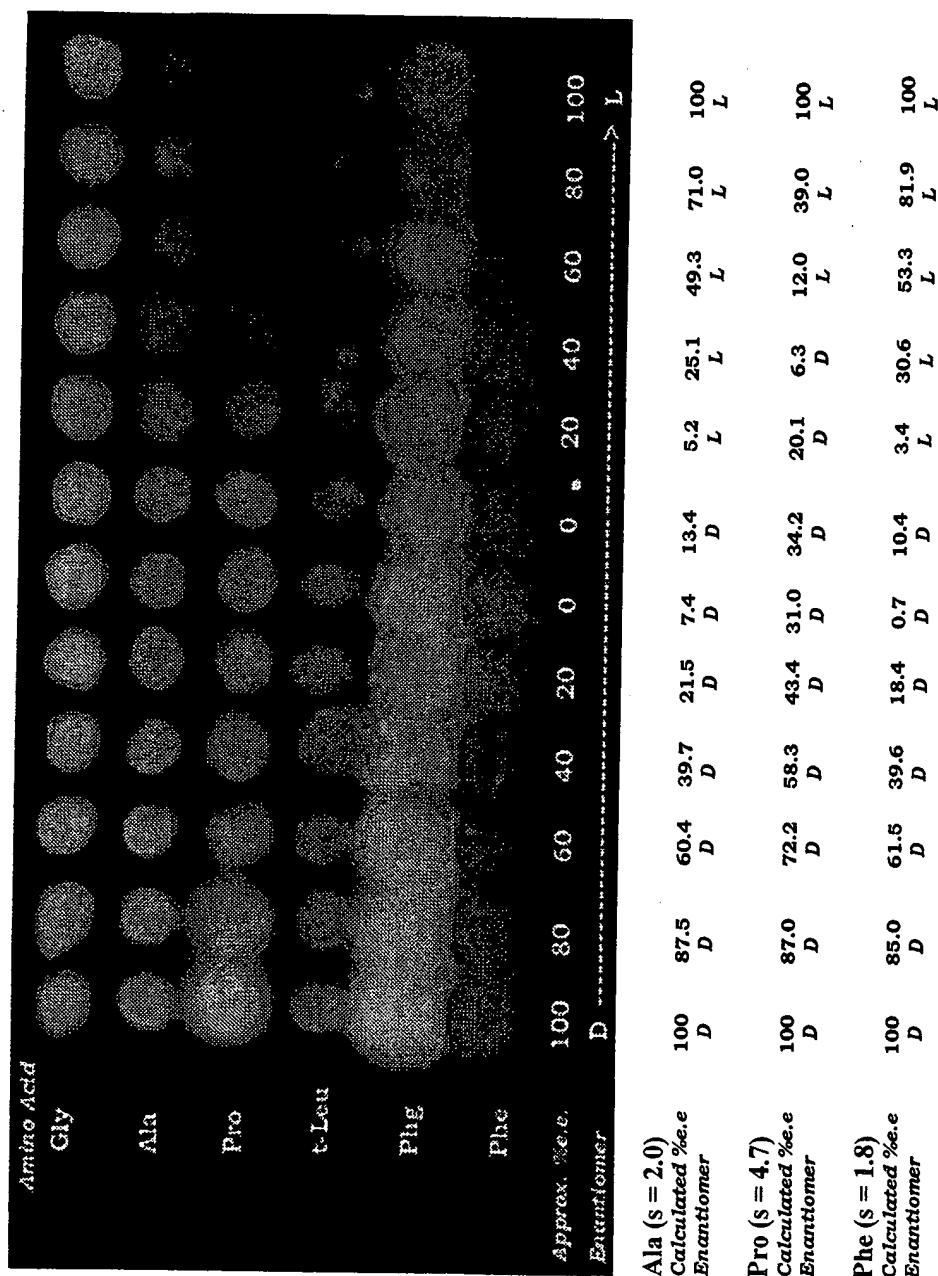


FIGURE 12

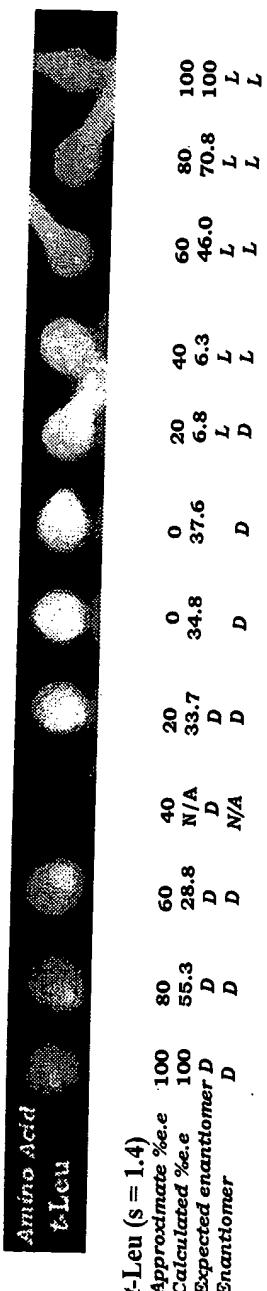


FIGURE 13

Entry	Amino Acid	D-enantiomer										L-enantiomer										
		100	90	80	70	60	50	40	30	20	10	100	90	80	70	60	50	40	30	20	10	
1	Gly	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
2	Ala	100	91	80	67	63	55	29	32	21	12	0	12	24	32	42	61	60	71	76	90	100
3	Val	100	89	79	71	53	52	39	31	20	12	0	13	25	34	42	53	97	76	77	92	100
4	Leu	100	90	80	70	60	50	36	30	20	12	0	15	30	35	47	54	62	73	79	90	100
5	Pro	100	89	82	73	65	61	45	35	25	14	0	6	21	31	42	43	67	75	85	93	100
6	Ser	100	91	77	65	55	49	40	37	27	13	0	11	31	34	45	61	63	75	81	90	100
7	Cys	100	64	73	79	73	69	46	43	41	-1	0	-1	43	32	46	54	65	68	77	83	100

Actual % satu

H₃N—CH₂CO₂H Glycine

H₃C—CH₂CO₂H Alanine

H₃C—CH(CO₂H)₂ Valine

CH₃—CH(CO₂H)₂ I. leucine

HO—CH₂CO₂H Serine

H₃C—CH₂—S—CH₂—CO₂H S-Acetamidomethyl-cysteine

FIGURE 14

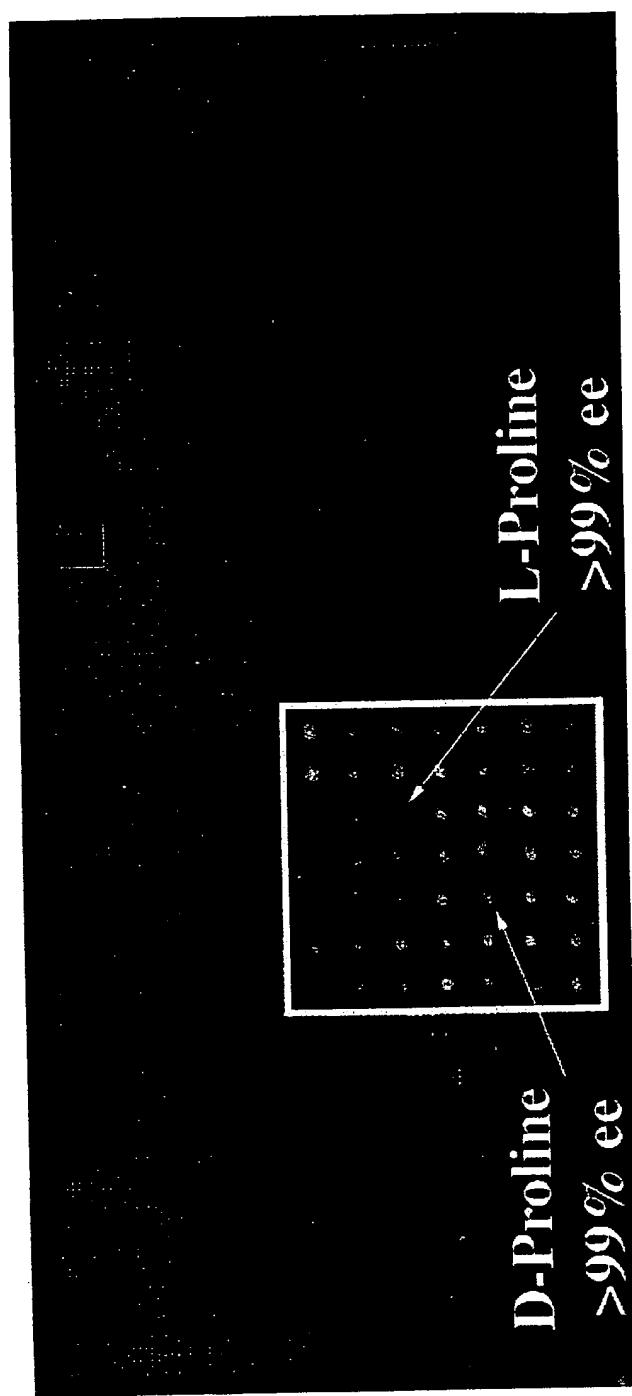


FIGURE 15

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